

ARG42662 anti-MICA antibody

Package: 50 µg
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes MICA |
| Tested Reactivity | Hu, Ms |
| Tested Application | IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | MICA |
| Species | Human |
| Immunogen | A 16 amino acid synthetic peptide within the last 50 amino acids of Human MICA. |
| Conjugation | Un-conjugated |
| Alternate Names | MHC class I polypeptide-related sequence A; PERB11.1; MIC-A |

Application Instructions

| | | |
|-------------------|--|---------------|
| Application table | Application | Dilution |
| | IHC-P | 10 - 20 µg/ml |
| | WB | 0.5 - 2 µg/ml |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | A-20 | |
| Observed Size | ~ 46 kDa | |

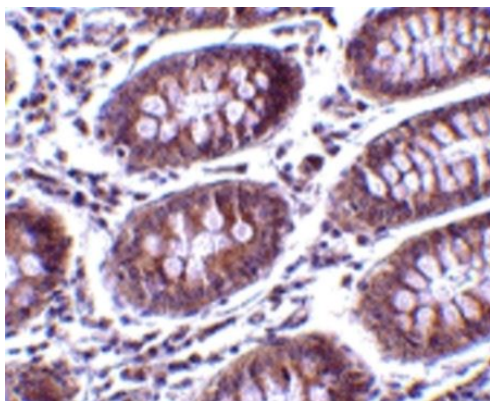
Properties

| | |
|---------------------|--|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | PBS and 0.02% Sodium azide. |
| Preservative | 0.02% Sodium azide |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

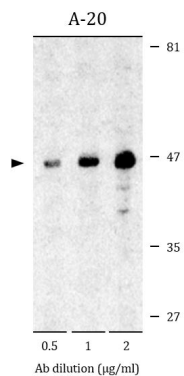
| | |
|-----------------------|--|
| Gene Symbol | MICA |
| Gene Full Name | MHC class I polypeptide-related sequence A |
| Background | <p>This gene encodes the highly polymorphic major histocompatibility complex class I chain-related protein A. The protein product is expressed on the cell surface, although unlike canonical class I molecules it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral membrane protein receptor. The protein functions as a stress-induced antigen that is broadly recognized by intestinal epithelial gamma delta T cells. Variations in this gene have been associated with susceptibility to psoriasis 1 and psoriatic arthritis, and the shedding of MICA-related antibodies and ligands is involved in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2014]</p> |
| Function | <p>Seems to have no role in antigen presentation. Acts as a stress-induced self-antigen that is recognized by gamma delta T-cells. Ligand for the KLRK1/NKG2D receptor. Binding to KLRK1 leads to cell lysis. [UniProt]</p> |
| Calculated Mw | 43 kDa |
| PTM | <p>N-glycosylated. Glycosylation is not essential for interaction with KLRK1/NKG2D but enhances complex formation.</p> <p>Proteolytically cleaved and released from the cell surface of tumor cells which impairs KLRK1/NKG2D expression and T-cell activation. [UniProt]</p> |
| Cellular Localization | <p>Cell membrane; Single-pass type I membrane protein. Cytoplasm. Note=Expressed on the cell surface in gastric epithelium, endothelial cells and fibroblasts and in the cytoplasm in keratinocytes and monocytes. Infection with human adenovirus 5 suppresses cell surface expression due to the adenoviral E3-19K protein which causes retention in the endoplasmic reticulum. [UniProt]</p> |

Images



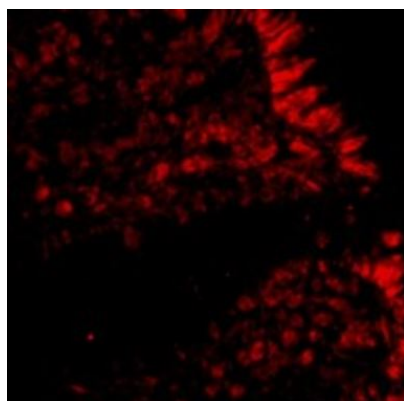
ARG42662 anti-MICA antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon tissue stained with ARG42662 anti-MICA antibody at 10 µg/ml dilution.



ARG42662 anti-MICA antibody WB image

Western blot: A-20 cell lysates stained with ARG42662 anti-MICA antibody at 0.5, 1 and 2 µg/ml dilution.



ARG42662 anti-MICA antibody IHC image

Immunohistochemistry: Human colon tissue stained with ARG42662 anti-MICA antibody at 20 µg/ml dilution.